

## Testis-Specific Insulin Homolog Polypeptides

## ABSTRACT OF THE DISCLOSURE

The present invention provides testis-specific insulin homolog polypeptides and polynucleotides encoding the polypeptides, as well as related compositions and methods are disclosed. The polypeptides and polynucleotides may be used within methods for enhancing viability of cryopreserved sperm, for enhancing sperm motility, to enhance fertilization in methods of assisted reproduction, as contraceptives and other related uses.

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